



MiniMax 250

ORDERCODE 40360



SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from Showtec.

The Showtec MiniMax brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.

We design and manufacture professional light equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.

So next time, turn to Showtec for more great lighting equipment.

Always get the best -- with Showtec !

Thank you!



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WARNING



CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!



**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never unscrew the screws of the rotating gobo, as the ball bearing will otherwise be opened.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- To ensure the longest and most efficient use of the lamp always wait 15 minutes before re-applying power after a shutdown. Failure to do so could result in premature aging of the lamp and failure to the electronics that drive it.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Movinghead must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !



OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 1.3 meter.

The maximum ambient temperature t_a must never be exceeded.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc. You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !

Always let the installation be carried out by an authorized dealer !

Procedure:

- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The MiniMax can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Mounting a clamp to the underside of the MiniMax moving head

1. Bolt a clamp to the included bracket with a grade 8.8 (minimum) M12 bolt and locknut, or as recommended by the clamp manufacturer, through the 13 mm hole in the bracket.
2. Align the bracket with the keyholes in the base. Insert both locking pins into the holes and turn both levers a full 1/4 turn clockwise to lock. The fasteners are locked only when turned fully clockwise.



Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

Cable	Pin	International
BROWN	FASE	L
BLUE	NUL	N
YELLOW/GREEN	EARTH	

Make sure that the device is always connected properly to the earth!

Description of the device

Features

The Showtec MiniMax is a mini moving-head with high output and great effects.

- 1 Color-wheel with 8 colored gobos, and open
- 1 Rotating Gobo-wheel with 7 metal gobos plus open
- DMX-control via standard DMX-controller
- 6/7 DMX-control channels required
- High-speed mechanical shutter
- 17° hard-focused beam
- DMX Stand-Alone, and Master/Slave control Options
- Sound-controlled via built-in microphone
- Manual focus
- Pan 0° -- 510°
- Tilt 0° -- 260°
- Pan/Tilt speed & reset control channel
- LED display menu with invert
- Pan/Tilt Invert option
- Micro-stepping motors
- Thermal switch
- Lamp ELC 250
- Fuse T3,15A / 250V

Overview



Fig. 1

- 1) Lens
- 2) LED Display + Menu buttons

Backside



Fig. 2

- 3)** DMX signal connector (OUT)
- 4)** Power cable
- 5)** ON / OFF
- 6)** DMX signal connector (IN)

Installation

Installing the Lamp

The Showtec MiniMax uses the ELC 250 (ordercode 82401 / 80809G / 80809O / 80809P / 80814 / 80821) reflectorbulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit. Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

Procedure :

1. Loosen the 2 screws on the back of the housing.
2. Gently remove the small metal housing.
3. Read lamp instructions. Do not touch the lamp bulb glass.
Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.).
4. Insert the lamp pins into the small holes in the lamp socket.
5. Put the lamp cover back and fasten the screws snugly. Then put the metal housing back and fasten the screws snugly



Fig. 3

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

One MiniMax

1. Fasten the moving head onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the MiniMax). Leave at least 1 meter on all sides for air circulation.
2. Plug one end of the electric mains power cord into the IEC socket on the unit.
Then plug the other end of the cord into a proper electric power supply socket.
3. Turn on the music. Go to MODE and set M-SO (Audio), then the fixture will react to the beat of the music.

Multiple MiniMax's

1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp fastened onto the MiniMax). Leave at least 1 meter on all sides for air circulation.

2. Use a 3-p XLR cable to connect the MiniMax's and other devices.

The pins:



1. Earth
2. Signal -
3. Signal +

3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
- 5) On the first device, go to MODE and set M-SO (Sound-controlled Master). Remember only one fixture can be the master.
- 6) On the slave devices you must select M-SL (Sound-controlled Slave). The DMX light on the slave devices will start blinking. The slave devices must have address 001.

Multiple MiniMax's Set Up

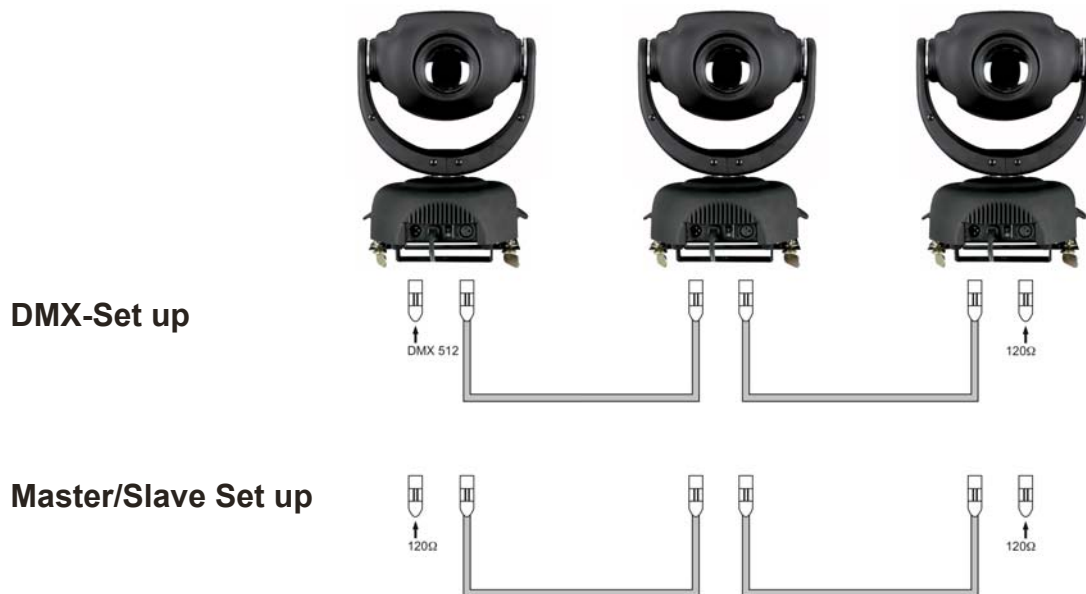


Fig. 4

Note : Link all cables before connecting electric power

DMX Protocol

Channel 1 - Horizontal movement (Pan)

Push the slider up, in order to move head horizontally (PAN).

Gradual head adjustment from one end of the slider to the other (0-255, 127-center).

The head can be turned by 510° and stopped at any position you wish.

Channel 2 - Vertical movement (Tilt)

Push the slider, up in order to move head vertically (TILT).

Gradual head adjustment from one end of the slider to the other (0-255, 127-center).

The head can be turned by 260° and stopped at any position you wish.

Channel 3 – Scan Speed Adjustment

0-255	Gradual adjustment Scan Speed from fast to slow
-------	---

Channel 4 – Colours

Linear color change following the movement of the slider. Between 240 - 255 the color-wheel rotates continuously the so-called “Rainbow” effect.

0-15	Open / White
16-31	Red
32-43	Green
44-55	Blue
56-67	Yellow
68-79	Magenta
80-91	Cyan
92-107	Orange
108-119	Pink
120-135	Combined Color Green/Red
136-151	Combined Color Green /Blue
152-167	Combined Color Blue/Yellow
168-183	Combined Color Yellow/Magenta
184-199	Combined Color Magenta/Cyan
200-215	Combined Color Cyan/Orange
216-227	Combined Color Orange/Pink
228-239	Combined Color Pink/White
240-255	Continuous cycling of the colors

Channel 5 – Rotating Gobos

0-23	Open
24-47	Gobo 1
48-71	Gobo 2
72-95	Gobo 3
96-119	Gobo 4
120-143	Gobo 5
144-167	Gobo 6
168-191	Gobo 7
192-255	Gobo wheel rotation from slow to fast

Channel 6 – Shutter / Dimmer / Strobe

0-15	Shutter closed / Blackout
16-127	Dimmer, from closed to open (0-100%)
128-239	Variable strobe, from fast to slow
240-255	Shutter open

Note: The MiniMax has 7 channels if you set Menu nchn to 7. See page 12 for the Menu settings.

Channel 7 – Reset & Lamp Control

0-127	Strike Lamp
128-191	Reposition after 5 seconds
192-250	Lamp off
251-255	Lamp off after 10 seconds

The MiniMax can be operated with a controller in **DMX**, **Sound Active Master**, **Sound Active Slave** or without the controller in **Stand-alone Mode**.

Control Panel

When the indicator light is on, means the MiniMax is working

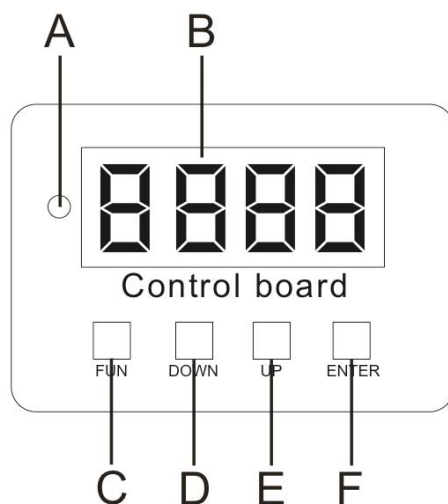


Fig. 5

- A. LED
- B. Display
- C. [FUN] Button
- D. Down Button
- E. Up Button
- F. [ENTER] Button

Control Mode

The fixtures are individually addressed **0001 - 0511** on a data-link and connected to the controller. The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the MiniMax will respond to the controller.


Please note when you use the controller, the unit has **6 (or 7)** channels.

When using multiple MiniMax's, make sure you set the DMX addresses right.

Therefore, the DMX address of the first MiniMax should be **1(A001)**; the DMX address of the second MiniMax should be **1+6=7(A007)**; the DMX address of the third MiniMax should be **7+6=13(A013)**, etc.

Please, be sure that you don't have any overlapping channels in order to control each MiniMax correctly.

If two or more MiniMax's are addressed similarly, they will work similarly.

For address settings, please refer to the instructions under "Addressing" (menu )

Controlling:

After having addressed all MiniMax fixtures, you may now start operating these via your lighting controller.

Note: After switching on, the MiniMax will automatically detect whether DMX 512 data is received or not. If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash.

The problem may be:

- The XLR cable from the controller is not connected with the input of the MiniMax.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Remotely controllable functions

Colour-wheel

The MiniMax contains a colour-wheel with 8 colours and one white. It is also possible to rotate the colour-wheel continuously at different speeds ("Rainbow effect" in both directions).

Rotating gobo-wheel

This rotating gobo-wheel has 7 metal gobos and open.

Error messages and mode information are displayed at the top of the menu tree.

If the fixture is in DMX mode, the address is displayed;

If the fixture is in Automatic Stand-alone mode, SA is displayed.

The top of the menu can be reached by pressing FUN repeatedly.

1. From the top of the control menu, press FUN to enter the main menu.
2. Press UP or DOWN to scroll through menus and press ENTER to view submenus.
3. To activate a setting or function, press ENTER.
4. To return to the previous menu or to escape without making a selection, press MENU.

The following settings are available to modify the fixture's behavior:

Pan/tilt swap: Map pan to the tilt channel and tilt to the pan channel, to provide more intuitive control of fixtures mounted sideways.

Inverse pan: Flip pan movement to right-to-left instead of left-to-right.

Inverse tilt: Flip tilt movement to down-to-up instead of up-to-down.

DMX lamp-off: By switching the fixture between 6 and 7 channels, you are able to strike the lamp via DMX.

Display: Flip the display for truss mounting.

Control Panel Functions

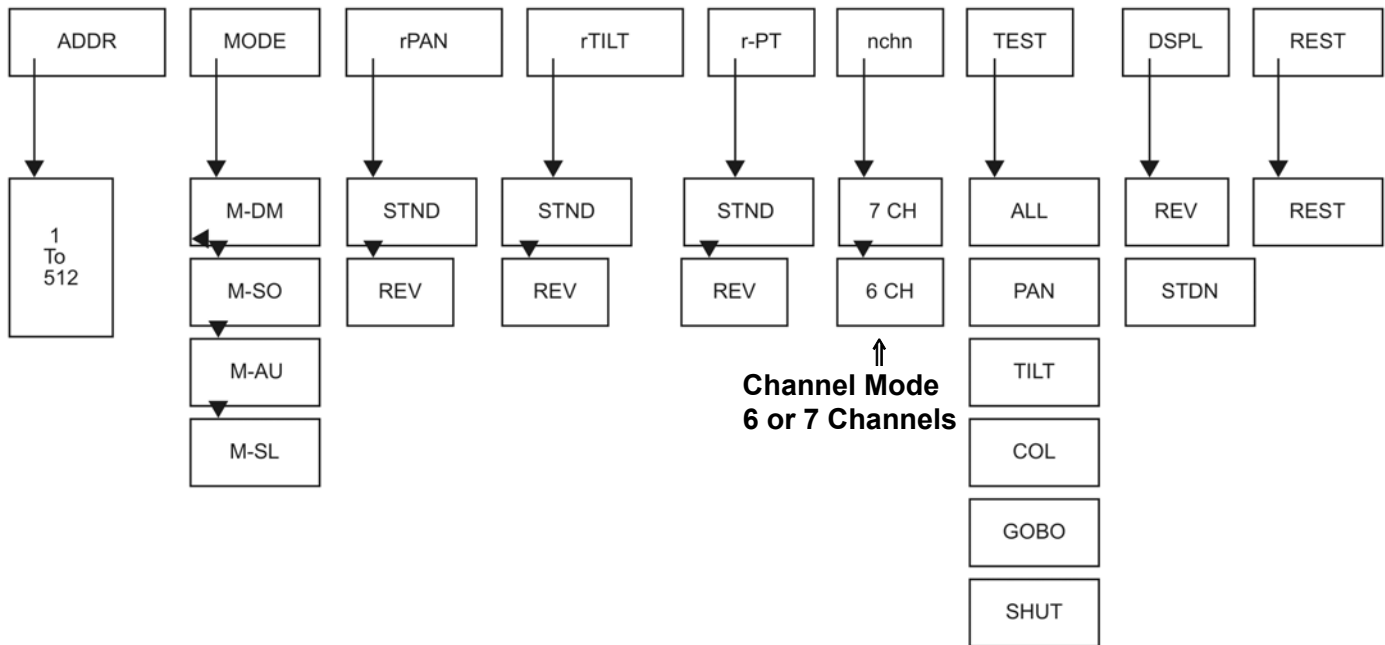


Fig. 6

Explanation Menu Codes

ADDR: This allows you to change the start address from 1-512

MODE: This allows you to change the control mode: **M-DM** = DMX Mode

M-SO = Sound-Active Master

M-AU = Stand-alone

M-SL = Sound-Active Slave

rPAN: This allows you to change the PAN direction: **REV** = Reverse

STND = Standard

rTILT: This allows you to change the TILT direction: **REV** = Reverse

STND = Standard

r-PT: This allows you to change the PAN and TILT direction simultaneously: **REV** = Reverse

STND = Standard

nchn: This allows you to control the ELC lamp via DMX: **7 CH** = Lamp controlled via DMX

6 CH = Lamp controlled via fixture

TEST: This allows the user to test device's features without a DMX-signal: **PAN** = Test the PAN movement

TILT = Test the TILT movement

COL = Test the color-wheel

GOBO = Test the gobo-wheel

SHUT = Test the shutter

DSPL: This allows you to change the display orientation and flip it 180°:

REV = Reverse

STND = Standard

REST: This allows you to reset the fixture

To set the control address

1. Scroll to Addr in the main menu and press ENTER. The current address is displayed.
2. Scroll to the address that is assigned to the fixture on the controller. Press ENTER to activate the address setting.

Stand-alone Mode

Stand-alone operation can be applied to a single fixture.

Go to MODE and set M-AU (Stand-alone). The fixture will play its internal program.

Stand-alone operation can be applied to a single fixture (the fixture may be set to the master/slave mode or controller mode) or to multiple fixture operating synchronously.

For synchronous operation of multiple fixtures, the fixtures must all be connected on a data-link and one of them is set as a master (M-SO) and the rest as slaves (M-SL). The DMX address of all the slaves are assigned to **001** and on that particular slave address only one fixture can be connected. To the fixture as the master or slave, see page 12.

If the master fixture resets or runs a test (program), all slaves will execute these acts too.

You can't play or edit any program on a slave, if the master is switched on and connected to the master/slave chain.

Note: Disconnect the fixtures from the DMX controller before master/slave operating, otherwise data collisions can occur and the fixtures will not work properly!

It's necessary to insert the XLR termination plug (with 120 Ohm) into the input of the master fixture and into the output of the last slave fixture in the data-link, in order to ensure proper transmission on the data link.

From the master's control panel it is possible to control any slave in a master/slave chain.

Addressing

With this menu you can set the DMX address or address a fixture as a master/slave.

001 - DMX addressing

1) Press FUN, until the display shows **001**.

2) Press ENTER to confirm, the display will show **PASS** (with actually stored address).

And press Up / Down to select the required address **001 - 511**, press ENTER to confirm.

```

      001
    [▲] [▼]
    511  002
    510  003
    509  004
    .
    001  511
```

































3) Press FUN, the chosen address is shown on the display.

Master-Slave Mode

MODE: Change the control mode:

- M-DM** = DMX Mode
- M-SO** = Sound-Active Master
- M-AU** = Stand-alone
- M-SL** = Sound-Active Slave

Channels settings

40360 MiniMax 250 ELC 24V -250W Fixture-settings (8 bit protocol)							
Channel	1	2	3	4	5	6	7
Function	Pan	Tilt	Pan/Tilt speed	Colour Wheel	Gobo Wheel	Strobe Dimmer	Lamp Control
255			 Pan / Tilt speed	240-255 Rainbow 	192-255 Wheel rotation 	↑ 255 Open 	 ↓ 250 Lamp urn OFF after 5 seconds 192 Lamp OFF ↓ 192 ↑ 191 Lamp restart after 5 seconds ↓ 128 ↑ 127 Lamp ON ↓ 0
128				228-239 Mix-col-8 	168-191 Gobo-7 	↑ 239 Strobe effect 	
				216-227 Mix-col-7 	144-167 Gobo-6 	↓ 128 Strobe effect 	
				200-215 Mix-col-6 	120-143 Gobo-5 		
				184-199 Mix-col-5 	96-119 Gobo-4 		
				168-183 Mix-col-4 	72-95 Gobo-3 		
				152-167 Mix-col-3 	48-71 Gobo-2 		
				136-151 Mix-col-2 	24-47 Gobo-1 		
				120-135 Mix-col-1 	0-23 Open 		
				108-119 Pink 			
				92-107 Orange 			
				80-91 Cyan 			
				68-79 Magenta			
				56-67 Yellow			
				44-55 Blue			
				32-43 Green			
			16-31 Red				
			0-15 Open/White				

Gobowheel

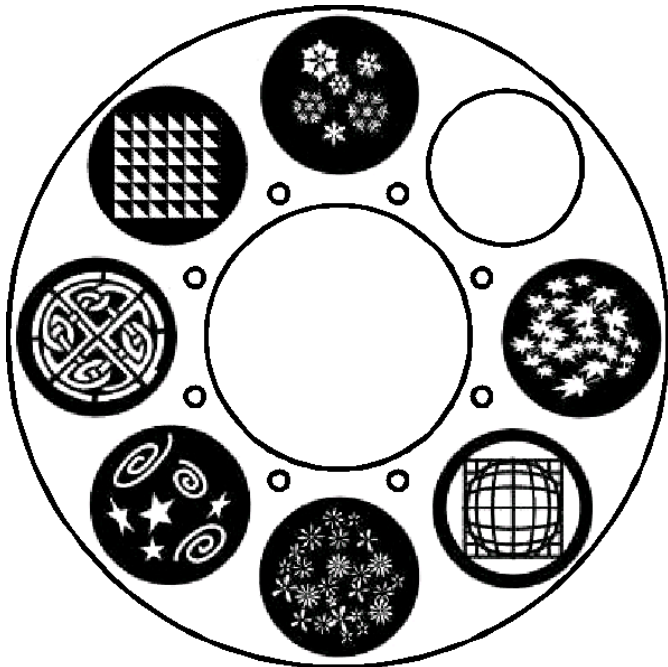


Fig. 7



Fig. 8

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The Showtec MiniMax requires almost no maintenance. However, you should keep the unit clean.

Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.

The cooling-fans, colour-filters, the gobowheel, the gobos and the internal lenses should be cleaned monthly with a soft brush.

Please clean internal components once a year with a light brush and vacuum cleaner.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp

1. Disconnect mains power supply. Loosen the 2 screws on the back of the housing.
2. Gently remove the small metal housing.
3. Follow directions for installing a new lamp, page 7.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover (see Fig. 9). Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

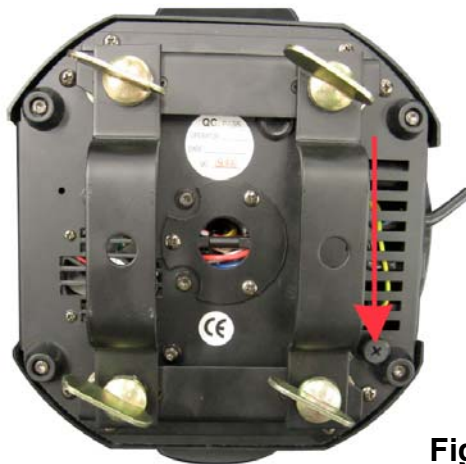


Fig. 9

Troubleshooting

No Light, No Movement

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the light effect does not operate properly, refer servicing to a technician.

Response: Suspect three potential problem areas: the power supply or the lamp.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The lamp. Replace the old lamp with a new one with the same specifications. See page 7 for replacing lamps.
3. The fuse. Replace the fuse. See page 15 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	·Check that power is switched on and cables are plugged in.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	·Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	·Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	·Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	·Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	·Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	·Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	·Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. ·Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	·Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
Shutter closes suddenly	The color wheel, gobo wheel, or a gobo has lost its index position and the fixture is resetting the effect.	·Contact a technician for servicing if the problem persists.
No light	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings and correct if necessary.
	Lamp missing or blown	·Disconnect fixture and replace lamp.
Lamp cuts out intermittently.	Fixture is too hot.	·Allow fixture to cool. ·Clean fan. ·Make sure air vents at control panel and front lens are not blocked. ·Turn up the air conditioning.
	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec MiniMax

Voltage: 240V-50Hz (CE)

Fuse: 3,15A / 250V

Dimensions: 220x220x350mm (LxWxH)

Weight: 6 kg

Operation and Programming

Signal pin OUT: pin 1 earth, pin 2 (-), pin 3 (+)

Set Up and Addressing: LED control panel

DMX Channels: 6 / 7

Signal input 3-pin XLR male

Signal output 3-pin XLR female

Lamp

Allowed lamp models*:

Showtec ELC 24V 250W (50 hr) ordercode 82401

GE ELC 24V 250W (50 hr; 3400K) ordercode 80809G

Osram ELC 24V 250W (50 hr) ordercode 80809O

Philips ELC 24V 250W (35 hr; 3400K) ordercode 80809P

Philips ELC 24V 250W (500 hr; 3400K) ordercode 80814

GE ELC 24V 250W (500 hr) ordercode 80821

Control: Automatic and DMX remote ON / OFF

Electro-mechanical effects

Colors: 8 colors plus white

Gobos rotating: 7 metal gobos and open

Colour-wheel with variable rotation speed

Gobo rotation: adjustable speed

All lenses are anti-reflection coated

High luminous-efficiency parabolic system

Strobe-effect with variable speed (1 flash -- 10 flashes/sec.)

DMX-control via standard DMX-controller

Sound-controlled via built-in microphone

Pan 0° -- 510°

Tilt 0° -- 260°

Wheel control: auto-electronic reset

Manual Focus

Thermal switch

Gobos

Glass gobo: heat-resistant and intensify glass; dichroic glass coating

Max. ambient temperature t_a : 40°C; Max. housing temperature t_B : 80°C

Cooling: 2 axial fans - one fan in the projector and one in the base

Motor: high quality stepping-motor controlled by microprocessors

Minimum distance:

Minimum distance from flammable surfaces: 0.5m

Minimum distance to lighted object: 1.3m

*: Versions for other lamps may be produced. Please check the specification label on your product.

Design and product specifications are subject to change without prior notice.





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